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processing apparatus; and

said external signal processing apparatus connected to said interface part having a signal processing circuit for processing said image signal transferred through said interface part and having a control part for controlling said image pickup apparatus through said interface part,

wherein said control part receives said recognition attribute information and controls said color space converting part to directly reduce an amount of image signals transferred through said interface part without converting said image signal into the video signal. --.

-- 10. (Six Times Amended) An image pickup apparatus comprising:

an image sensor for photo-electrically converting a picked-up object image into an electrical signal;

an image signal generating part for forming an image signal from the electrical signal;

a color space converting part for storing recognition attribute information for recognizing said image pickup apparatus and a plurality of predetermined, diverse color spaces selectable therein for converting a color space of the image signal without converting said image signal into a video signal; and

an interface part for externally transferring the image signal and said recognition attribute information to an external signal processing apparatus,

wherein said color space converting part is controlled by said external signal processing apparatus connected to said interface part to directly reduce an amount of image signals transferred through said interface part after transferring said recognition attribute information through said interface part without converting said image signal into the video signal.

-- 20. (Six Times Amended) An image pickup unit comprising:  
image pickup part for picking up an optical image to form a picked-up image signal;  
interface part for performing communication with an external signal processing apparatus for storing recognition attribute information for recognizing said image pickup unit; and  
~~color space compression control part having a plurality of predetermined, diverse color space compression data for controlling and directly reducing an amount of picked-up signals transferred to said external signal processing apparatus without converting said image signal into a video signal according to a control signal supplied from said external signal processing apparatus through said interface part after transferring said recognition attribute information through said interface part.~~--

-- 24. (Six Times Amended) A picked-up image signal processing apparatus comprising:  
interface part for performing communication with an image pickup unit including said image pickup unit for picking up an optical image to form a picked-up image signal, recognition attribute information for recognizing said image pickup unit and a plurality of predetermined, diverse color space conversion data therein; and  
~~transmission control part for transmitting to said image pickup unit through said interface part a control signal for controlling and directly reducing an amount of each color signal picked-up image signals transferred through said interface part without converting said image signal into a video signal after receiving said recognition attribute information through said interface part.~~--